



 [Print this Page for Your Records](#)

[Close Window](#)

Control/Tracking Number: 217-L-2210-AAS

Activity: Late Paper

Current Date/Time: 11/19/2010 3:41:54 PM

Hot, Massive Stars in I Zw 18

Author Block: Sara R. Heap¹, D. Lindler², E. Malumuth³

¹NASA's GSFC, ²Sigma Space Corp., ³Wyle Information Systems.

Abstract: I Zw 18 is one of the most primitive blue, compact dwarf galaxies. The ionized gas in I Zw 18 has a low oxygen abundance ($O \sim 1/30$ O_{sun}) and nitrogen abundance ($N \sim 1/100$ N_{sun}) (Pequignot 2008). We have obtained a far-UV spectrum of the northwest massive star cluster of I Zw 18 using Hubble's Cosmic Origins Spectrograph (COS). The spectrum is compatible with continuous star-formation over the past ~ 10 Myr, and a very low metallicity, $\log Z/Z_{\text{sun}} \sim -1.7$, although the stellar surface may be enhanced in carbon. Stellar wind lines are very weak, and the edge velocity of wind lines is very low (~ 250 km/s).

:

Category (Complete): 06. Stellar Evolution, Stellar Populations

Presentation Preference (Complete): Poster

Additional Info (Complete):

Status: Complete

[American Astronomical Society](#)

2000 Florida Ave., NW

Suite 400

Washington, DC 20009

FOR TECHNICAL SUPPORT:

217-398-1792 (Monday through Friday 9:00 am-5:00 pm Central Standard Time)

or [OASIS Helpdesk](#)

[Leave OASIS Feedback](#)

Powered by [OASIS](#), The Online Abstract Submission and Invitation System SM

© 1996 - 2010 [Coe-Truman Technologies, Inc.](#) All rights reserved.